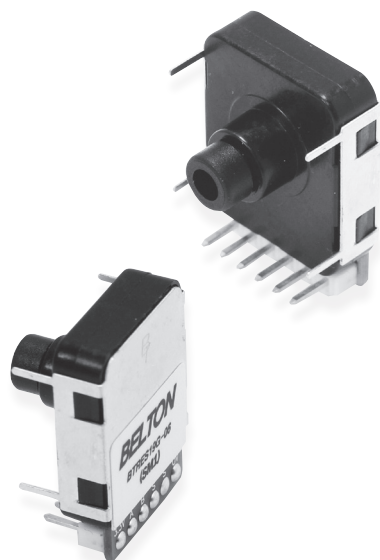


# OPTICAL ENCODER SWITCH

## BTRES19 SERIES

Plastic Housing Optical Encoder switch,  
Thin thickness with Push-button switch function



### Features

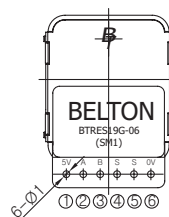
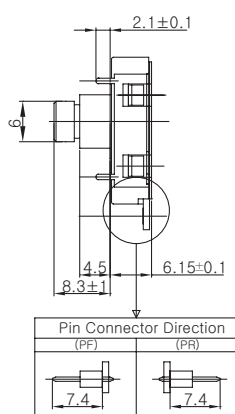
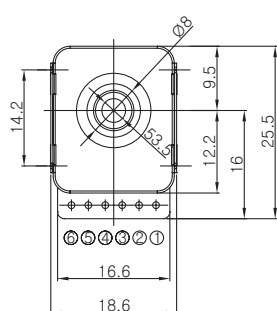
- Plastic housing with Plastic shaft
- 6.2mm max. thin thickness construction
- 1,000,000 life cycles with vertical/horizontal mounting type
- 6 or 24 pulses per rotation with fine square wave of output
- 24 detents of mechanical click with push-button switch
- Light weight : 5g
- Size : 19×25mm

### Applications

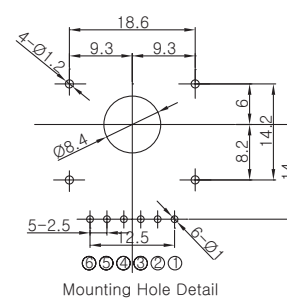
- All kinds of level control, tuning and position setting in the digitalized medical, measuring, radio, and communication equipments, etc.

### Standard Dimensions

BTRES19VGP-06C-P2R08-□□-□F



### P.C.B mounting Hole



Terminal	Function
1	Power 3.3V
2	Output 'A'
3	Output 'B'
4	For Switch
5	For Switch
6	GROUND

## BTRES19 SERIES

- Supplying Voltage : DC 3.3 V  $\pm$  5 %, DC 5 V  $\pm$  5%
- Supplying Current : 20 mA max.
- Push-button switch : 10 mA, 12 V DC
- Phase difference : 90 °  $\pm$  45 °
- Output Wave : Incremental with Rectangular wave
- Resolution : 6, 16, 24 pulses / rotation
- Frequency Response : 100 Hz
- Insulation Resistance : 100 Mohms on 250 V DC
- Withstanding Voltage : 1 min. at 300 V AC
- Electrical Life : Over 1,000,000 cycles

- Mechanical Click No. : 16 (22.5 °), 24 (15 °) positions per rotation
- Rotational Torque :  $50 \pm 20$  gf·cm
- Operating force of Push-button switch :  $5 \pm 2$  gf
- Click & Push-button Mechanical Life : Over 1,000,000 cycles
- Soldering Temp. : 5 sec. On the 260 °C
- Temp. Range of Operating : 0 °C ~ + 50 °C
- Panel mounting screw strength : 8 Kgf·cm

